

Fig. 1

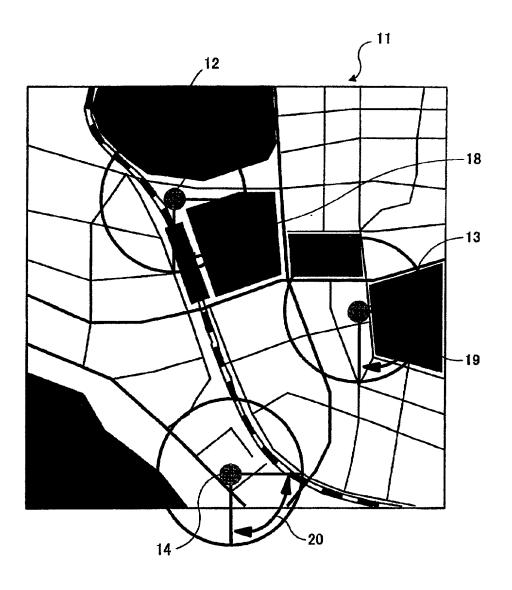
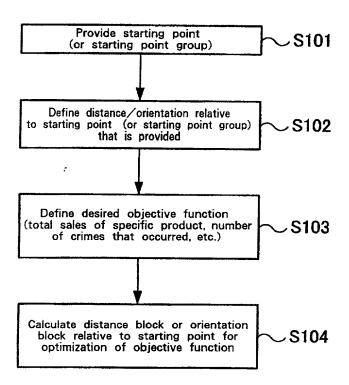


Fig. 2

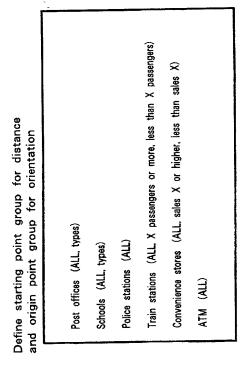


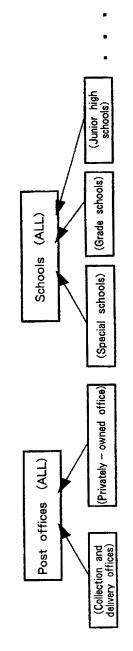
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Example database

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Train station schema = (ID, position (coordinate), passenger count, transfer station or not)
                                                                                                                                                                                                                                                                                                                                                                                                                            ATM schema = (ID, position (coordinate), average withdrawal, average operation times)
                                                                                                                                                                                                                                                                                                                                                    Customer schema = (ID, position (coordinate), age, sex , annual income, occupation )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Categorical attribute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      - Numerical attribute
                                                                                                                                                                                                                                                                           Convenience store schema = (ID, position (coordinate), sales, store name )
                                                                                                                                          Police station schema = (ID, position (coordinate), type)
Post office schema = (ID, position (coordinate), t\underline{type})
                                                                     School schema = (ID, position (coordinate), type)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Crime schema = (ID, position (coordinate), type)
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Define distance/orientation

Calculate using Voronoi diagram (dissociated from substance on a map in high - speed processing or for a very short distance) Define orientation scale where one cycle is 360° clockwise with north being 0° Calculate using dijkstra algorithm (much calculation time / reflects substance on a map) Define orientation interval using the orientation scale Euclidean distance Network distance Orientation Distance

Define objective function

(Maximized distance for the average annual incomes of customers having support rate of S or higher) (Maximized distance for customer rates of "age of 60 or older" having support rate of S or higher) Categorical (or derived as categorical value) attribute (Maximized distance for "ATM count/customer count" having support rate of S or higher) - Numerical (or derived as numerical value) attribute "Customer schema" (Minimized distance for a square error of "average annual incomes") (Maximized distance for mutual amount of "sex" information) "Customer schema" "Customer schema" "Customer schema" "ATM schema"

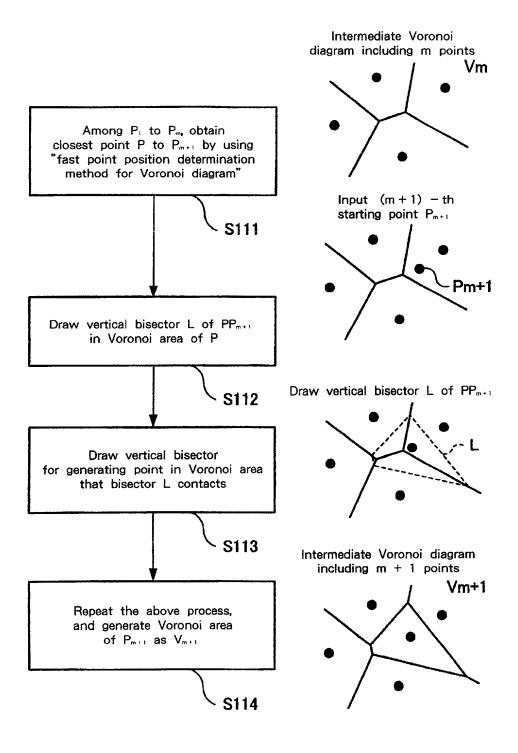


Fig. 8

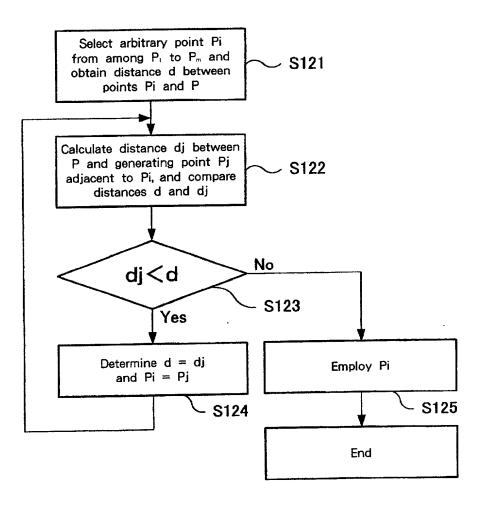
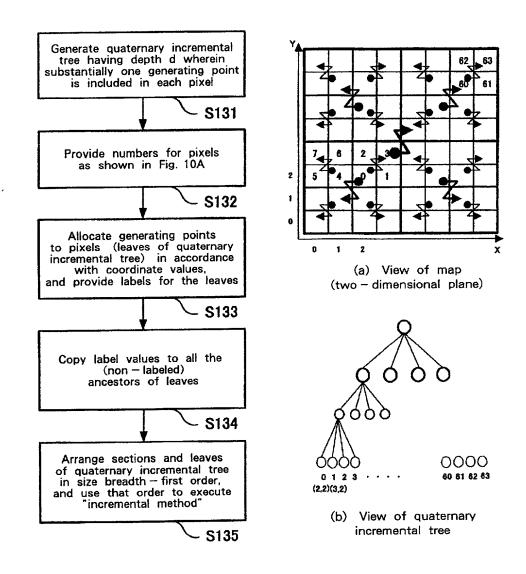
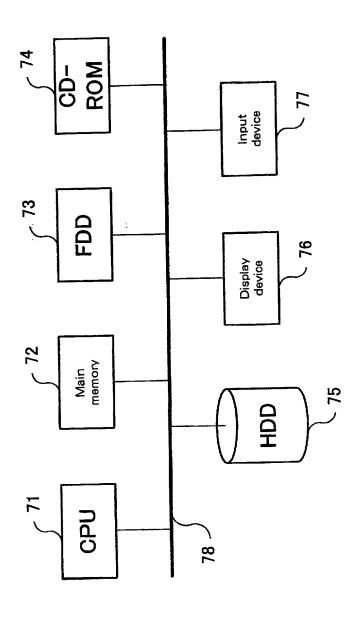


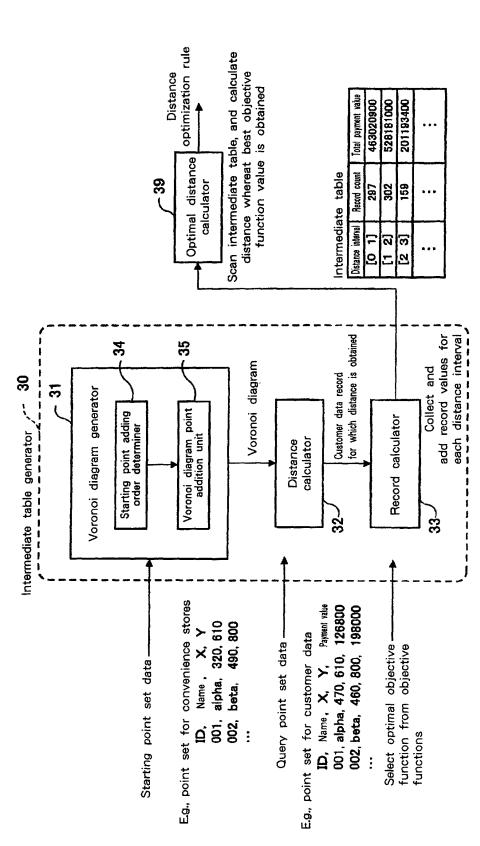
Fig. 9





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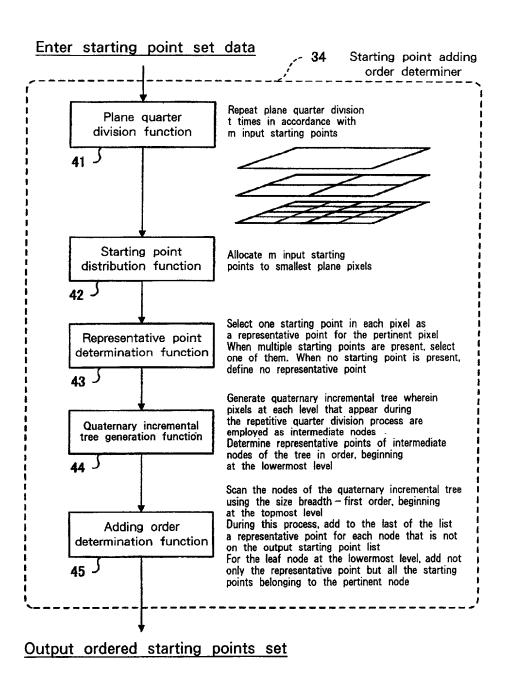


Fig. 13

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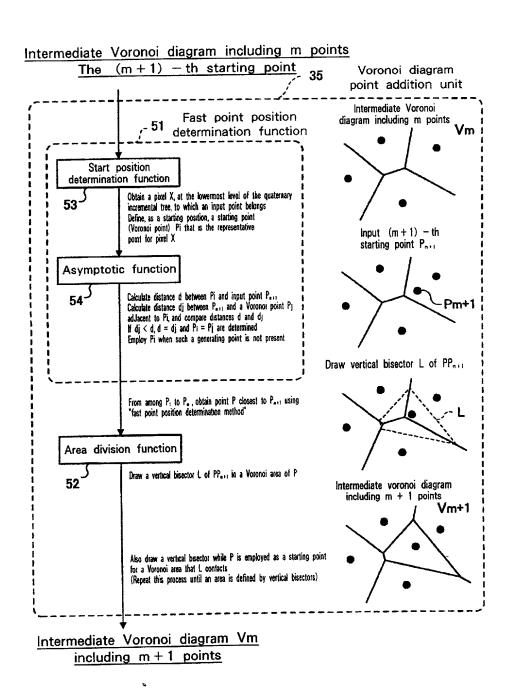


Fig. 15